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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: H. William Harris, Edward M. Brown, and Steven C. Hebert  
Application No.: 10/016,496 Group Art Unit: 1646  
Filed: December 10, 2001 Examiner: Not yet assigned  
Confirmation No.: 7764  
Title: Polycation-Sensing Receptor in Aquatic Species and Methods of Use Thereof

CERTIFICATE OF MAILING		
<p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450</p> <p>on <u>7/30/04</u> <u><i>M. Murray</i></u></p> <p>Date <u><i>Meredith Murray</i></u> Signature</p>		
<p>Typed or printed name of person signing certificate</p>		

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

[ ] under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)

[X] under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

[ ] under 37 CFR 1.97(c) together with either:

a Statement under 37 CFR 1.97(e), as checked below, or

[ ] a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

[ ] under 37 CFR 1.97(d) together with:

[ ] a Statement under 37 CFR 1.97(e), as checked below, and

[ ] a \$180.00 fee under 37 CFR 1.17(n), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

[1] under 37 CFR 1.97(j);

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.  
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Enclosed herewith is form PTO-1449:

- Copies of the cited references are enclosed.
- Copies of cited references are enclosed except those entered in prior application, U.S. Application No. 09/162,021 (now U.S. Patent No.: 6,337,391), to which priority under 35 U.S.C. 120 is claimed. The earlier application contains copies of the cited references.
- The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
- The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
  - the explanation provided on the attached sheet.
  - the explanation provided in the Specification.
  - submission of the enclosed International Search Report.
  - submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
  - the enclosed English language abstract.

[ ] Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

Examiner \_\_\_\_\_

Date \_\_\_\_\_

[ ] A copy of each above-cited application, including the current claims, is enclosed.

[ ] A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

**REMARKS**

**In an Information Disclosure Statement filed with the U.S. Patent and Trademark Office on July 23, 2002, for the instant application, the citation for reference AU2 by Fuleihan, G.E., et al. was incorrect. The correct citation is presented on the accompanying Supplemental PTO-1449 form as reference AU2. In order to clarify the record, the Examiner is requested to acknowledge the corrected citation for reference AU2 in the next office communication.**

Method of payment:

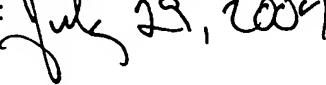
[ ] A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

[ ] Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.

[X] Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,  
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

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Dated: 

PTO-1449 REPRODUCED

**SUPPLEMENTAL INFORMATION  
DISCLOSURE CITATION  
IN AN APPLICATION**

July 30, 2004

(Use several sheets if necessary)

ATTORNEY DOCKET NO.  
2856.1001-011APPLICATION NO.  
10/016,496FIRST NAMED INVENTOR  
H. William HarrisFILING DATE  
December 10, 2001EXAMINER  
Not yet assignedCONFIRMATION NO.  
7764GROUP  
1646**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	AB	3,777,709	12/11/1973	Anderson <i>et al.</i>
	AC	5,688,938	11/18/1997	Brown <i>et al.</i>
	AD	20030082574 A1	05/01/2003	Harris <i>et al.</i>
	AE	20030124657 A1	07/03/2003	Harris <i>et al.</i>
	AF	6,564,747 B2	05/20/2003	Harris <i>et al.</i>
	AG	6,463,882 B1	10/15/2002	Harris <i>et al.</i>
	AH	20030124090 A1	07/03/2003	Harris <i>et al.</i>
	AI	20030051269 A1	03/13/2003	Harris <i>et al.</i>

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED

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2856.1001-011APPLICATION NO.  
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7764GROUP  
1646

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES      NO
	AN	WO 02/30215 A2	04/18/2002	Aquabio Products Sciences LLC	

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2856.1001-011	APPLICATION NO. 10/016,496
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION		FIRST NAMED INVENTOR H. William Harris	FILING DATE December 10, 2001
July 30, 2004 (Use several sheets if necessary)		EXAMINER Not yet assigned	CONFIRMATION NO. 7764
			GROUP 1646

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AU2	Fuleihan, G. E., et al., "Calcium Modulation of Adrenocorticotropin Levels in Women-A Clinical Research Center Study," <i>The Journal of Clinical Endocrinology &amp; Metabolism</i> , 81(3): 932-936 (1996). (CORRECTED, please see remarks in Supplemental Information Disclosure Statement transmittal)
AY5	Baum, M., et al., "Recent Insights Into the coordinate regulation of body water and divalent mineral ion metabolism," <i>AM. J. Medical Sciences</i> , 316(5): 321-328 (1998).
AZ5	Baum, M.A. et al., "An apical extracellular calcium/polyvalent cation sensing receptor (CaR) present in the osmoregulatory organs of salt water (SW) and fresh water (FW) fish likely plays a role in salinity adaptation," <i>J. of the Am. Soc. of Neurology</i> 7(9):1276 (1996).
AR6	Elger, E. B. et al, "Effect of adrenergic blockage with Bretylium and Phentolamine on Glomerular Filtration Rate in the Rainbow Trout, <i>Salmo Gairdneri</i> rich, adapting to Saline Water," <i>Comparative Biochemistry and Physiology</i> , 75C: 253-258 (1983).
AS6	Folmar, Leroy, C. and Dickhoff, W. W., "The Parr - Smolt Transformation (Smoltification) and Seawater Adaptation in Salmonids," <i>Aquaculture</i> , 21: 1-37 (1980).
AT6	Solanki, T. G. et al., "Changes in the Mucous Cells of the Gills Buccal Cavity and Epidermis of the Nine-Spined Stickleback <i>Pungitius-Pungitius</i> Induced by Transferring the Fish to Sea Water," <i>Journal of Fish Biology</i> , 21(5):563-576 (1982).
AU6	Clark, M.S., et al., "Sparus aurata mRNA for extracellular calcium sensing receptor precursor (casr gene)," <i>EMBL Database Accession no: AJ289717</i> (June 9, 2001).
AV6	Clark, M.S., et al., "Calcitonin: Characterisation and Expression in a Teleost Fish, <i>Fugu rubripes</i> ," <i>Journal of Molecular Endocrinology</i> , 28: 111-123 (2002).

EXAMINER	DATE CONSIDERED
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